



# BADGER STATE Smoke Signals



**Serving Amateur Radio In Wisconsin**

**Published Monthly Since 1969**

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## From WESTLINK REPORT

POWER MEASUREMENT IN THE AMATEUR SERVICE has been changed. The Commission has redefined power measurement in terms of output power, replacing the former input power standard. The change to Part 97 now describes transmitting power as "peak envelope power output," replacing definitions, limits and measuring procedures developed for Amateur Radio technology in the 1920s. In general, the P.E.P. output is set at 1500 watts maximum.

The Commission noted that for much of present day equipment, the rules require complex and often dangerous procedures to measure input power. In addition, measurement of transmitter input power is difficult and impractical in the SSB mode and some other modern modulation techniques as well.

The commission said that the new definition of power would enable Amateurs to transmit at the same maximum across all bands. Power would not be limited by the decline in amplifier efficiency at higher frequencies, and the operator would not have to use upper margins of amplifier capability to maintain transmission power at higher frequencies.

Also revised is the definition of effective radiated power based on transmitter power delivered to the antenna as measured in peak envelope power terms. While Amateur operators will be compelled to comply with the rules regarding station power actually used, the Commission will no longer require Hams to keep specific equipment on hand to make power measurements.

For DSB/AM, Amateurs will be permitted to continue to use the older input power level and measurement pro-

cedures for 7 years, after which they will be required to use the new techniques. Continuous modes such as CW and FM will fall under the new rules which become effective August 29th, 1983. (FCC PR Docket 82-624, Report and Order)

NOVICE CLASS POWER LEVELS are also changing. Effective August 29th, Novice operators will be permitted 200 watts power output rather than the current 250 watts input level as defined in the rules. In addition, the power level for operation in the 10 MHz band will remain at the 250 watt level unchanged, since operation there is by special waiver and is not governed directly by the Amateur rules.

THE AMSAT UK OSCAR 10 Handbook has been released by AMSAT UK. It consists of a set of loose-leaf style data sheets on using OSCAR 10, and will be updated as time progresses. Eventually, it will become part of a planned AMSAT UK loose-leaf technical manual; it is available now to non-members for 3.00 plus applicable postal charges from: AMSAT UK, London, E12 5EQ, England.

THE ARRL WILL AGAIN seek to overturn the 10 meter linear amplifier ban. After learning that FCC General Docket 83-114 presents an opportunity to again make a case that the ban is an example of unnecessary regulation, the League's Executive Committee voted to direct ARRL Counsel Chris Imlay, N3AKD, to file comments opposing the moratorium.

THE NATIONAL BUREAU of Standards has instituted a new phone service that contains the same info as WWV broadcasts. The number is: (800) 957-9999

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expire with the license term itself, permitting a former rules violator to take a new test and get back on the air. Only a formal challenge can designate such an applicant for a hearing before a new license is granted. Many jammers have publicly vowed to "return and get even," and many may be waiting patiently for their orders to run out.

**RUMOR:** The Central Intelligence Agency has effectively killed the "No Code" license. This rumor permeated the exhibition hall at the highly successful ARRL Southwest Division Convention the weekend of September 3rd. The story, if factual, says that the CIA has contacted the FCC, either officially or unofficially, and has indicated that the establishment of a license class not requiring proficiency in the Morse Code would not be in the interest of the United States.

The Commission is not in a position to comment, since action on PR Docket 83-20 has not yet been finalized. Don't expect any public comment on the matter from the CIA, itself, since that agency rarely issues public statements.

Recent personnel-staffing advertising that appeared in various Amateur publications indicate that a proficiency in Morse at a speed of 12 words per minute is a highly sought after requirement for employment with the agency.

It is also believed that this action, if true, was unilateral on the part of the CIA, and not solicited by the ARRL. League officials attending the convention appeared to be quite surprised when they heard the story, but reserved comment until all the facts become known.

**THE LEAGUE WILL ENDORSE RACES** expansion. The Executive Committee decided to file comments supporting PR Docket 83-524 and will request that all 2 meter frequencies be opened for RACES operation, as outlined in the FCC Notice of Proposed Rules Making.

The same body voted to oppose PR Docket 83-485 which seeks to expand the 10 meter repeater subband authorization down to 29.0 MHz from its current 29.5 MHz.

The Executive Committee took this action based on concerns about its impact on SSB, AM, FM simplex and especially amateur satellite communications.

**KAMPUCHEA (CAMBODIA)** was reported active from the 2nd week in August through the 30th. XUISS was in Ampil, XUIPV was at Sok Sann and XUIKC was on from Nam Yin. The DXCC desk at League Headquarters is still pondering whether to grant DXCC status to Kampuchea. Quoting from the DX Bulletin, a news release from Newington stated, "The above Amateur Radio Stations will be re-established by....the president of the KPNLF and the Prime Minister of the Coalition Government of Democratic Kampuchea, commemorating the World Communication Year's events. This Coalition Government, officially seated in the United Nations, is ratified by the United States and Japan as well as the ASEAN countries at the present time."

**SYRIA WILL USE A 6C1** prefix between the 15th and 21st of October.

**MALPELO SHOULD BE ON THE AIR** between October 12th and 17th. The callsign to look for is HK6TU.

**Swapfest Corner**

October 9: The Kettle Moraine Radio Amateur Club will hold their annual Ham Computer, and Video fest on Sunday October 9, 1983 beginning at 8:00 a.m. at the Waukesha Exposition Center, Highways F & FT. Admission \$2.00 in advance (\$3.00 at the door). Reserved 4 foot table \$3.00 (held 'till 11 a.m. only.). Reservations accepted to Oct. 1. For more information or reservations write to KNRA RAC, P. O. box 411, Waukesha, Wisconsin 53187.

**from WESTLINK REPORT**

**THE FCC WILL ISSUE** a Notice of Inquiry or a Notice of Proposed Rule Making before year's end dealing with the business use of Amateur radio. Its recent "Notice of Clarification" and subsequent "Letter of Clarification" of the original release appear to have raised more questions than it answered. The Commission has received at least one "Petition for Reconsideration" on the subject, and several groups are indicating their intentions to file on the matter in the near future. The Amateur community seems to be very divided on the topic with some hams demanding a verbatim enforcement of the prohibitions and others wanting the federal agency to take a far more lenient approach. The broadcast industry would also like to see the prohibitions reduced in order to permit greater access to material for news dissemination use.

**EX-JAMMERS COULD RETURN** to the air with new legal licenses. It appears that the FCC has no specific method of flagging new applications from violators whose licenses have been suspended or revoked. Most amateurs do not realize that license revocation orders

|   |   |        |        |      |      |
|---|---|--------|--------|------|------|
| Y | Y | TTTTTT | A      | RRRR | CCCC |
| Y | Y | T      | A      | R    | C    |
| Y |   | T      | A      | RRRR | C    |
| Y |   | T      | AAAAAA | R    | C    |
| Y |   | T      | A      | A    | CCCC |

The September Gathering of YTARC was held the 12th in Room 34 of the Baraboo Civic Center. The following faithful were there:

Jim Romelfanger, K9ZZ, Baraboo  
 Bill Hommel, KA9QFJ, Baraboo  
 Duane Grotophorst, KA9HKL, Sauk City  
 Fred Green, W2HQA, Ocean View, New Jersey  
 Rick Green, KA9LVL, Rio (Wis)  
 Art Escher, WA9WUS, Lodi  
 Ken Ebnetter, K9EN, Portage  
 Jim Decker, WB9UQT, Baraboo  
 1 moth, M0TH, Baraboo

We didn't have a quorum, likely due to the fact I inadvertently changed the date - not once, but twice! September gatherings are on Mondays, but I had the date set for a Wednesday. Next, we had chosen the 19th, to avoid a conflict with the Madison Area Repeater Association meeting in Madison. Somehow, I changed it to the 12th. Shux.....

Anyway, we have another new member, Bill Hommel, KA9QFJ, Baraboo. Bill was a member of the spring 1983 Novice class, and he was a first rate student.

Since our meetings have gotten smaller, a change in the quorum requirement was proposed by Jim Romelfanger, K9ZZ. It reads:

Article 5, Section 1 of the Yellow Thunder Amateur Radio Club's Constitution is to be amended to provide that "five (5) Full Members shall constitute a quorum for the transaction of business." This amendment will be voted on at the October meeting. Be there...we do need quorum to change the quorum, hi!

We had an excellent roundtable ragchew session. Duane, KA9HKL, who has been listening to OSCAR 10, reported that the downlink in the two-meter band is now stronger. Also, during the Teleconference Radio Net (TRN), broadcast here on Madison 16/76 (quality wasn't the best), but after about an hour on the TRN loop, Chicago managed to drop 99 repeaters in all. Duane found the TRN being transmitted on OSCAR 10 and someone tied that into 16/76. Now Duane, that's HIGHLY practical! By using the bird, there were no telephone lines to worry about! Thankx!

We also went over the newest poop from WESTLINK REPORT.

The high spot of the meeting was the program. We had a NASA film about the first four flights of the Space Transport System (STS) Columbia. A goodie indeed. Then we had a chance to see the video tape produced by Roy Neal, K6DUE, and Bill Pasternak, WA6ITF, about the upcoming flight of WSLFL/space mobile. (Qwen Garriott, WSLFL will become OMCAR 1 - Orbiting Man Carrying Amateur Radio!)

Roy, Bill, and everyone who worked on the project did a first-rate job. I've shown it to a meeting of the Optimists Club in Baraboo...it was well received. Those of us "peons" who work for our hobby in our own areas thank K6DUE and WA6ITF, for their brilliant foresight in the production of this video material. What

better thing about our hobby to toot our horns about?

I'm sorry some missed the film and tape due to the date foulup, but I will have the tape and can reshow it at our October gathering.

**WELCOME NEW MEMBER!** We are happy to welcome Bill Hommel, KA9QFJ, to YTARC! Bill was a student in our spring class, as noted earlier. He's just getting his feet wet in Amateur Radio. What influenced him to join? "K9ZZ." His other pastimes are skiing, boating and hunting. Welcome, Bill, and we all hope you enjoy the club. Glad to have you. k9zz

#### Sentence sermon:

Treat a man like a dog and he may act like one.  
 -- Samuel Johnson

The Fish Fry, held at Pierce's Supper Club in Baraboo was a success, as it usually is. We had 21 folk to partake of the good Pierce's beer-batter fish and assorted other fattening goodies. We had several guests. We were glad to count among us Roy, K9FHI, our ARRL Section Manager, and his pretty YF, Beryl, KA9BAC. (Beryl, we've gotta have a sked! zz). Dave Knaus, WA9POV, ARRL's Wisconsin Section Affiliated Club Coordinator was present and accounted for. Thanks to Dave for presenting to me my 1983 Wisconsin QSO Party certificate!

Our champion raffle ticket seller was there...Wayne Phelan, along with his mom, and Wayne's chauffeur, Pat Olson. All hail from the Baraboo area. THANKX to you for making the raffle a resounding success! (Wayne sold approximately 500 tickets.)

#### Raffle Winners:

First - \$100.00 to Willie Wetspot, Lodi  
 Second - 30.00 to Ed Nikl, Baraboo  
 Third - 20.00 to Clarence Frank, Baraboo  
 Fourth - 10.00 to Donald A. Guth, Sun Prairie  
 Fifth - 10.00 to Wayne Schult, Lyndon Station

We gave out a nice assortment of door prizes, too, all beautifully wrapped by the folk at Troyer Rexall Drug, Baraboo. I won a box of caramels...and I don't have any teeth (now)! Thanks to Jerry's Hallmark Shop, Baraboo, for the nice plastic wallet calendars, which all got.

Our President, Bob King, KA9GNY, did yeoman's duty, presenting a superb selection of slides...we saw planes on the ground, planes in the ground, planes in the air, and some of Bob's great foliage shots taken from the air. Thankx, Bob!

I should mention that one of the finest credits to Amateur Radio - and to humanity itself - was there...Evelyn Fox, WB9QZA, who was lookin' pretty. She was with her sister Alice. You know, these octogenarians never age! Good to see you both.

Thank you all for coming...we hope to see you ALL and then some in 1984.



**MEMBER BIRTHDAY:** On October 3rd, wish a happy one to Lyle Stone, WD9ESD, Lodi. On the 7th, it's Bob Warner's turn. Bob is WB9UQO, of Lodi. Have fun youse guys! k9zz

#### ACHTUNG ACHTUNG ACHTUNG ACHTUNG ACHTUNG ACHTUNG

It's time again... for the YTARC's annual junkfest (which we choose to call an auction.) It'll be on October 11th. (Regular October date...it's a Tuesday). Auction starts right after the biz meeting. Biz meeting starts at 7:30 p.m. Please tag your items with your name and/or call. If you specify a minimum bid, mark it. YTARC gets 10 percent of the sale price of your item(s) as commission for the treasury. If an item goes for more the \$50.00, we rake five percent off the top. Donated items are indeed most welcome. There is an elevator in the building so you won't have to carry your heavy items up two flights of stairs.

Please attend. Not only do we need a quorum, but we need your money! We will publicize the auction as best we can for good attendance. Please try to be there. Remember, membership is not required. We hope to see YOUR smiling face. Come by...come buy! k9zz

**Raffle Roundup:** Although the final results of the raffle ticket sales are not yet compiled, we did do very well thanks to fine efforts of our sellers. After the dust settles, we'll need a quorum to decide what to buy and how what we buy will best be used. Library donation? Rig(s)? Antennas? Make your voice heard. If you don't attend to help decide, don't complain later. We will discuss this at the October meeting.

#### SAAGBRAW 1983

Jim Decker, WB9UQT  
Baraboo, WI

Once again local amateur were asked to help provide communications support for SAAGBRAW. The Sentinel Active Americans Great Bike Rides Across Wisconsin consists of three six day routes from Wausau, Fish Creek, and LaCrosse which meet at the end in Milwaukee. Each route had over 300 bike riders ranging in age from about 10 to sixty. The south route was in our area for parts of Tuesday and Wednesday. The lawn of the Baraboo Civic Center was turned into a colorful tent city for Tuesday night.

The Milwaukee Radio Amateur Club set up a station in the Sentinel offices and was on the air for the whole trip. The trip coordinators vans were two meter equipped and relied on local amateurs for the eighty meter link to Milwaukee. The van operator route was KA9LXP, Mark Bruggemann. WA9FUQ, Dennis Karstetter from La Valle and myself drove parts of route in Sauk county looking for breakdowns and were assisted by K9YHO, Harv Hamer and WB9TFJ, L. J. Hammer relaying messages to Milwaukee. On Wednesday I traveled about half of the Dane county route, and dropped off one of the bikers at the bus depot in Madison to make an emergency trip back to Milwaukee.

Computer chips are so small because they don't eat much.

#### BUDGET CUTS AFFECT HAM RADIO from GEARVAK+ Bulletin

Federal Communications Communicator Marvin Larpsnogg announced yesterday that budget cutbacks by Washington will impact ham band activity. Larpsnogg stated that "the unannounced shutdown of the ten meter band last Tuesday was only a sample of things to come." "U.S. Amateurs quickly noted the event. Comments heard on fifteen meters ranged from statement like, "Ten is dead this morning!" to "Can't even get across town on then today!"

Larpsnogg said the band closures will be unannounced and more frequent and are related only to cutbacks. "There is absolutely no connection with government programs to limit foreign imports, although the JA prefix will be the first to feel the cutbacks," he explained.

This is not the first time that amateurs have been affected by government spending priorities. During the late 1960's, massive funding was directed to the U.S. Lunar Landing Program and away from solar sunspot support projects. The consequences were felt by amateurs world wide with lowered sunspot activity continuing for almost five years. Mr. Larpsnogg predicted that unless funding policies are reversed, we will see fewer and fewer days when the higher maintenance cost bands like ten and six meters will be opened up.

In response to further questioning, Larpsnogg pointed out that in those instances where maintenance funding has been cut completely off, bands like 106MHz and 330 MHz have been dead for years. "Our funding for 220 MHz was only \$14.98 last year which was not enough for a single opening," he said.

(by AA9W)

#### WHY THE REPEATER DOESN'T WORK WELL From Sine of the Times, by K3VCI

The reason the thing doesn't work well is that the franistan is out of phase with the platocrit. This is caused by the frittelator not being properly matched impedancwise with the syncromut. So that's why the d... thing won't work ... so there!

The whole thing started when a pine tree grew up in the path of the antenna, thus causing a standing wave to rise .. and we can't get it to sit down! Any further questions will be answered by the Secretary who is very good at handling situations of this type ...

#### WHO SAID THAT (And where are they now?)

"No worries, boss. Nobody's going to buy those little Japanese cars."

"Who on earth would want six bottles of the same thing in a package with a handle on it."

"Watches with no hands? You're crazy!"

"Oh, come on. Don't tell me they can put music on Scotch tape."

W W W W W  
W W W W W  
W W W W W

NN N A  
N N N A A  
N N N A A  
N N N A A A A A A  
N NN A A

### WISCONSIN NETS

| NET    | WNA | FREQ    | UTC       | LOCAL CDT | MANAGER |
|--------|-----|---------|-----------|-----------|---------|
| BWN    | YES | 3984    | 1100Z     | 0600      | WD9IID  |
| BEN    | YES | 3985    | 1700Z     | 1200      | WB9ESM  |
| WSBN   | YES | 3985    | 2230Z     | 1730      | K9ANV   |
| WNN    | YES | 3723    | 2300Z     | 1800      | KA9HPQ  |
| WSSN   | YES | 3645    | 2330Z     | 1830      | KC9CJ   |
| WIN-E  | YES | 3662    | 0000Z     | 1900      | W9YCV   |
| WIN-L  | YES | 3662    | 0300Z     | 2200      | K9LGV   |
| XPO    | NO  | 3925    | 1731Z     | 1231      | WA9YVC  |
| NWTN   | YES | .34/.94 | 2330Z     | 1830      | N9BDL   |
| GR.BAY | NO  | .72/.12 | THU 0145Z | 2045 WED  | WB9NRK  |
| WCMTN  | YES | .31/.91 | 2330Z     | 1830      | N9AUG   |

Technical Coordinator  
Wisconsin Section ARRL

Richard Regent, K9BDF  
5003 South 26th St.  
Milwaukee, WI 53221

### So What's a Technical Coordinator?

Why in the world do we have Technical Coordinators? The Technical Coordinator (TC) appointment was created early in 1983 by the ARRL in recognition of the continuing need for amateurs to broaden their knowledge and understanding of the technology of radio communications.

What are the duties of the TC? The duties of the Technical Coordinator are:

- (1) To encourage and assist local clubs in sponsoring technical working groups and forums, with the topics to be determined by the interests of the amateurs in the area.
- (2) To encourage technically minded amateurs to be active in their local clubs, and to share their knowledge with others.
- (3) To involve amateurs in the section in interesting technical projects with other league members through QST articles and programs at conventions or hamfests.

Adding TCs to the section appointments is a great idea to support the rapid changes in technical activity. Hams can be proud of their technical accomplishments, a beautiful rainbow of advancements. There's even a pot of gold for everyone - golden opportunities to enjoy new ham modes, to continue self improvement by helping others with equipment problems, or to invigorate club meetings by demonstrating new electronic gadgets.

Computers are streamlining RTTY faster than ssb has advanced voice communications. Some inexpensive computers, connected to ham radios, can provide various

speeds of CW, RTTY, and ASCII modes of communications, while specialized computers can convert RTTY to synthesized voice for the blind, control various functions of repeaters, check for duplicate contest contacts, operate packet radio, or keep logs. The ARRL newsletter *QEX*, the Experimenter's Exchange, is a monthly publication packed with articles on equipment modifications, projects, the latest technical happenings, and special computer modes like RTTY, to mention only a few subjects. If you aren't set up with a RTTY computer in operation, then visit a friend with one and have fun.

Just as Dean Martin sings, "Everybody loves somebody, sometime," It's true in hamdom that "everybody helps somebody, sometime." You can inspire a newcomer to become a ham or encourage others to upgrade. Form a group to assist either handicapped hams with their rigs or those who can no longer do antenna work. Conduct a ham radio demonstration at a school and ask teachers to include hamming in their science curriculum. Become a merit badge counselor for the Scouts. If you have special technical knowledge and can give a club program, please let me know. No matter how you help others, sharing your technical ham knowledge can be a rewarding experience.

A guest speaker giving a talk on a new gizmo can awaken and interest club members, especially after a long report on last month's minutes or an exhaustive treasurer's audit. Give a short club program on your favorite technical subject, to enlighten others. Write, or help someone write, a technical article. Show films, slides, and video tapes, available from the ARRL to see exciting new facets of ham radio. Design, build, and test tutorial technical projects to be adopted into club programs of continuing education. The ARRL booklet *Weekend Projects* describes easy-to-build club projects that satisfy the desire to build, yet have reasonable cost and use available parts. Keep in mind that one of amateur radio's reasons for being is technical competence. Meetings nourished with technical tidbits give starving members something to chew, then once they gain strength it helps to vary the menu.

I'm editor of a quarterly newsletter called *The Technical Coordinator*, which is mailed to all Technical Coordinators and will eventually be sent to Section Managers and various league officials. ARRL Headquarters is delighted with this effort and the Technical Department Manager gives me excellent support. The objective of the newsletter is to exchange ideas, not only to help technically weak sections, but also to encourage advanced sections to share information. It's a great way to discover what hams are doing in sections outside of Wisconsin - they build club projects, enjoy enthusiastic club programs, and are fairly active.

But, without a doubt, Wisconsin hams are tops and fortunate to have many fine nets, clubs, hamfests, swapfests, picnics, a QCHA chapter, and a variety of activities. Don't wait for others to catch up. Investigate the current VHF/UHF, ATV/SSTV, moonbounce, satellite, and computer interests in Wisconsin. As the saying goes "opportunity knocks, but you must open the door"

ARRL BULLETIN NR 80 FROM ARRL HEADQUARTERS  
NEWINGTON CT SEPTEMBER 13, 1983  
TO ALL RADIO AMATEURS

The new edition of the ARRL Net Directory is now available. Listing over 1200 public service nets by location and frequency, as well as many computer and maritime service nets, this newly revised booklet is also packed with information on all the basics of traffic handling and net operation. You may obtain a copy by sending a self addressed nine by twelve inch envelope with eighty eight cents U.S. postage to ARRL Net Directory, 225 Main Street, Newington CT 06111

#### BADGER WEATHER NET REPORT

3984 KHz. 0600 Local Time  
Gary McCandless, WD9IID, NM  
Box 534, Ringle, WI 54471

#### QUARTERLY STATUS:

June STN 1310 TFC 1434 MIN 2049  
July STN 1297 TFC 1489 MIN 2111  
Aug. STN 1376 TFC 1533 MIN 2162

#### SPECIAL THANKS:

To Jim and Pat Caldwell, WB9YPY, WB9YPZ. Jim after serving as B.W.N. Net Manager for many years has resigned. The net will miss his leadership, but not his voice, as he will remain an active member. Again, many thanks, Jim.

#### NET MANAGER:

The new B.W.N. Net Manager is WD9IID, Gary "MAC" McCandless, from Ringle, WI.

#### NEW MEMBERS:

K9VVO - Frank - Greenlake  
KA9KVG - Tom - Stevens Point

Everything is running smoothly - hot and dry in Southern WI, Hot and humid in Central WI, Just right in Northern WI. However, conditions will change - Fall colors - cooler temperatures - WHITE BLANKET!

"73" de WD9IID NM B.W.N.

#### NWTN 34/94 1830 local time

Lee G. Andreas, N9BDL  
Rte. 1, 7600 Highway D, East,  
Lake Tomahawk WI 54539

The long, hot and humid summer is supposed to be drawing to a close. Everything except the thermometer shows this to be true. The swallows are flocking, some hummingbirds have moved out and the ravens are plucking toads off the greensward. The number of out-of-town calls checking into the NWTN is decreasing.

The past three months have seen a few changes take place in the Northwoods Ham community. The new net manager for the Northwoods Traffic Net is Lee, N9BDL. Jim, WB9YPY, explained the change in his last NWTN

report. All Northern Wisconsin Hams thank Jim and Pat for making things run smooth and taking such interest and care in the two meter operation since the 34/94 machine first went on the air back in March of '79. Not one net has been missed since then. A few had to be run on simplex but every day was covered. Thanks Jim and Pat.

The Northwoods Amateur Radio Club held elections and all officers are active members of the NWTN. They are: President - Mike, KA9BHL, Vice-President - Lee, N9BDL, Secretary - Diane, KA9BHK, and Treasurer - Bill, W9ZZM. All officers serve as NCS for the net. An S.E.T. as been scheduled by the DNR and local Fire Departments and Bill, K9BTP is rounding up local Hams to assist in the communications. Unfortunately, the S.E.T. and the WMA Ltd. meeting are the same day. Bill has been working overtime to get the ARES program into high gear.

One of our retired clan, Bruno, K8DZR, is back amongst the wage earners. Bruno is teaching a machine shop course at Nicolet College. He taught the same subject for many years in the U.P., Michigan that is.

I suppose that net statistics are inevitable in this report, so here they are:

|      | QNI | QTC | QTR  |
|------|-----|-----|------|
| June | 484 | 36  | 1216 |
| July | 534 | 50  | 1186 |
| Aug. | 486 | 44  | 1159 |

Have you checked into more than one net lately? If not, why not? Let more of us hear your pear-shaped sonorous tones or precise fist.

A point to ponder for those who have taken up pondering: Consider the plight of Noah in an Ark for forty days of fishing and only having two worms.

73 de Lee, N9BDL

**FOR SALE:** HEATH HW-2036, upgraded to 2036A. FM transceiver, synthesized across entire 2 meter band. 10 watts out. \$110.00 or best offer. Jim Romelfanger K9ZZ, 1414 Martiny Ct., #6, Baraboo, Wisconsin 53913. (608) 356-3127

#### WHO SAID THAT

(And where are they now?)

"No need for us to enter the computer business. Only six computers will be needed to meet the entire worlds needs."

#### MOMENT-LIGHTENERS

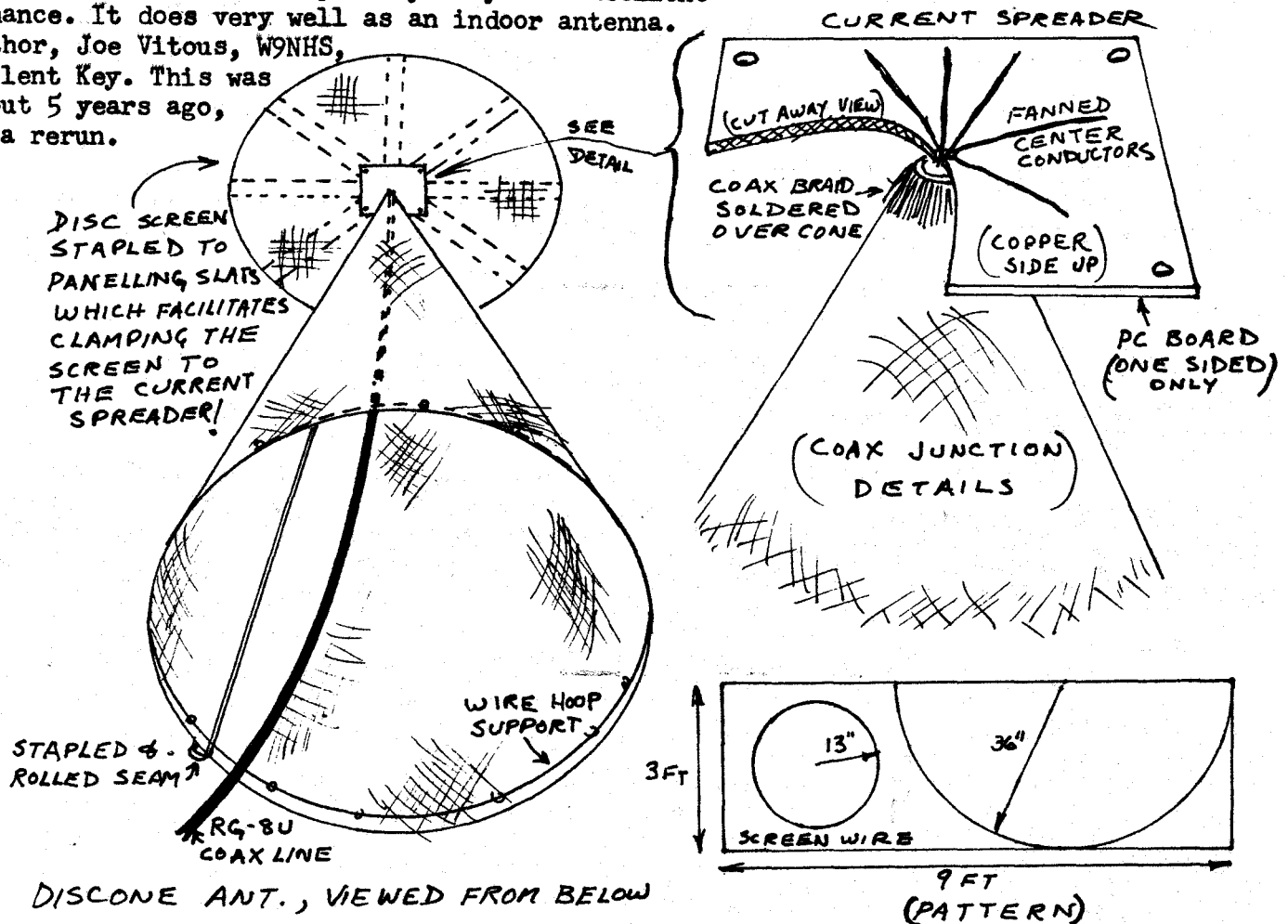
From CARI NEWS

Logic is the way to go wrong with confidence.

Help stamp out and abolish redundancy.

Help stamp out and abolish unnecessary redundancy.

Some interest in antennas for two meters has popped up, and here's one that will surprise you by its excellent performance. It does very well as an indoor antenna. The author, Joe Vitous, W9NHS, is a Silent Key. This was run about 5 years ago, here's a rerun.  
k9zz



The budget Discone antenna can be built in about an hour's time for less than \$6.00 (less coax). Steel window screening was procured for the project for less than \$5.00 at a local hardware store. The only "expensive" additional item was the "one-side copper clad PC board" for the disc current spreader. Simplicity and performance are its features. This design is best used indoors. It lends itself to being suspended way up in the attic. Monofilament fishing line served nicely as the suspension.

Cutting patterns, shown above, provide final antenna dimensions for a 60° cone and a fundamental resonant frequency at 82 to 84 Mhz. A nearly perfect line termination (with RG-8/U) will be experienced in the 144Mhz, 220Mhz, and 430Mhz bands. The low radiation angle, efficiency, excellent SWR, and a large capture area are the main features of this "horn type" antenna. These practical advantages yield a few db of extra performance over its theoretical low gain. -----Joe Vitous, W9NHS

Here's a few references to dig into: "ARRL ANTENNA BOOK", ARRL, Newington, Conn.; 1974: Pages 298-299 (CH-16) - - - "REFERENCE DATA for RADIO ENGINEERS", Howard W. Sams & Co., Inc., NY, NY.: Pages 25-10 to 25-11. - - - Edward C. Jordan, "ELECTROMAGNETIC WAVES & RADIATING SYSTEMS", Prentice-Hall, NY, NY.: CH-13, Sec. 13.01, Pages 452- 461; Sec.13.06, Pages 491- 499; Sec.13.07, Pages 499- 506. - - - - "Happy building", 73s.-joe, w9nhs

WISCONSIN NETS ASSOCIATION BOOSTERS

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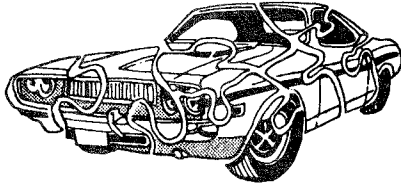


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